VPFR Series

The Worlds First Impact-Resistant Infrared Window

Industrial-grade VPFR Series (Viewing Pane Fixed Reinforced) infrared (IR) windows enable thermographersto survey critical electrical applications efficiently and safer than ever.

NFPA standards recommend IR inspection under fully energized conditions. However, PPE requirements, panel cover removal and reinstallation are time consuming and costly. Use of the VPFR Series IR windows nearly eliminates the risks associated with energized IR electrical inspection by providing companies with a non-invasive, closed-panel inspection methodology.

Thermographers using IR windows are never exposed to energized conductors or circuit parts and are not engaged in risk increasing behaviors. Therefore, elevated levels of PPE for invasive surveys are not required, minimizing survey time while maximizing safety.

Protected by our unconditional lifetime warranty

VPFR Series Feature:

- Fixed And Stable Transmission (FAST)
- Unconditionally guaranteed against transmission loss for accurate qualitative and quantitative analysis
- Durable, fully impact-resistant
- Patented reinforced grill exceeds high voltage switchgear viewing pane standards
- Manufactured from non-conductive UL 94 plastics insulated to 30kV/mm
- Easy-Grip™ stainless steel cover
- Fitting templates and instructions included
- Reinforcing grills comply with IP2x standard for safe maximum hole size and fail-safe design

Certifications

- Certified by UL (USA) & cUL (Canada) to the following standards:
  - 50V
  - 50E
  - 746C: Impact and Flammability
  - 1558: Impact and Load Resistance
  - 508A; ANSI 508A
- IEEE C37 20.2.a.3.6: Impact and Load
- IP65 / NEMA 4
- Lloyds of London Type Approval
- American Bureau of Shipping (ABS)
- BSI Quality ISO 9001 Certified System
- CSA C22.2 No. 14-13
- DNV (Det Norske Veritas) P261.1E Maritime, Vessel and Offshore Applications

Specifications

Materials	
Window Housing and Cover	UL 94 5VA Nylon (switchgear-grade plastic); -40°C (-40°F) to 273°C (523°F); Easy-Grip™ stainless steel cover
Optic	UL 746 compliant, IR transmissive polymer; -40°C (-40°F) to 325°C (617°F)
Reinforcing Grill	Aluminum coated with UL 94 5VA Nylon; -40°C (-40°F) to 273°C (523°F)
Gaskets	UL 94 5VA TPE; -40°C (-40°F) to 273°C (523°F)
Hardware	316 stainless steel

Other	
Useful Temperature Rating	-40°C (-40°F) to 200°C (392°F)
Water and Dust Ingress	IP65 / NEMA 4: closed and when in use

Dimensions

Model	Body Diameter	Window Diameter	Assembly Thickness
VPFR-50	9.1 cm (3.6 in)	5.1 cm (2.0 in)	2.6 cm (1.0 in)
VPFR-75	12.1 cm (4.8 in)	7.6 cm (3.0 in)	2.6 cm (1.0 in)
VPFR-100	15.1 cm (5.95 in)	10.2 cm (4.0 in)	2.6 cm (1.0 in)

Caution: The dimensions listed above are not installation dimensions. Do NOT cut prior to receiving your IRISS window and installation template.

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